

WHAT IS CLAIMED, IS

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- Sub A1
- 1) Disc speed control device for use in a player or recorder of a disc shaped information carrier to be recorded or recorded with data along data tracks, the data being read or recorded using a pick-up (9), the device comprising:
 - frequency generating means (2) for generating a frequency signal having a frequency representative of a rotation speed of the disc,
 - disc actuating means (1) for rotating the disc,
 - leading value output means (4) for generating a determined rotation speed value,
 - speed servo means (6) which receives the frequency signal and the determined rotation speed value and which regulates the disc actuating means to the determined rotation speed value,

characterized in that it further comprises :

 - signal processing means (10) which process an output of the pick-up when the data is being read and deliver a data frequency signal,
 - speed processing means (8) which receives and uses the data frequency signal to compute the determined rotation speed value.
 - 2) Disc speed control device according to claim 1, wherein the signal processing means comprises a data phase locked loop means (11) which outputs a voltage (U^- , U_0 , U^+) corresponding to a phase locked loop frequency (f^- , f_0 , f^+) of the rate at which data is read by the pick-up, and comprising a reference voltage source which delivers a reference voltage (U_v) at an input of the speed processing means.
 - 3) Optical disc player or recorder for playing back from or recording to a disc shaped information carrier having recorded or to be recorded with data along data tracks, the data being read or recorded using a pick-up (9), characterized in that it comprises a disc speed control device the device comprising:

- Sub 1
- frequency generating means (2) for generating a frequency signal having a frequency representative of a rotation speed of the disc,
 - disc actuating means (1) for rotating the disc,
 - 5 - leading value output means (4) for generating a determined rotation speed value,
 - speed servo means (6) which receives the frequency signal and the determined rotation speed value and which regulates the disc actuating means to the
 - 10 - determined rotation speed value,
 - signal processing means (10) which process an output of the pick-up when the data is being read and deliver a data frequency signal, and
 - speed processing means (8) which receives and uses the
 - 15 - data frequency signal to compute the determined rotation speed value.
- 4) Optical disc player or recorder according to claim 3, wherein the signal processing means comprises a data
- 20 phase locked loop means (11) which outputs a voltage (U- , U0, U+) corresponding to a phase locked loop frequency (f-, f0, f+) of the rate at which data is read by the pick-up, and comprising a reference voltage source which delivers a reference voltage (Uv) at an input of
- 25 the speed processing means.

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